

2053
B.E. (Electrical and Electronics Engineering)
Eighth Semester
EE-809: Wireless Communication

Time allowed: 3 Hours

Max. Marks: 50

NOTE: Attempt five questions in all, including Question No. 1 which is compulsory and selecting two questions from each Unit.

x-x-x

I. Attempt the following:-

- a) What is base station?
- b) Write some examples for wireless communication system.
- c) What is MSC?
- d) What do you mean by forward and reverse channel?
- e) What is foot print? (5x2)

UNIT - I

- II. a) Discuss the evolution of mobile radio communication system.
b) Discuss the differences between paging system and cordless system. (5,5)
- III. a) Describe the various channel alignment strategies.
b) How can we improve the coverage and capacity in cellular systems? (5,5)
- IV. a) What is spread spectrum modulation.
b) How digital cellular system is advantageous over analog cellular system. (5,5)

UNIT - II

- V. a) What is multiple access? Explain TDMA in detail.
b) Describe the types of services provided by ISDN. What are the main features of broadband ISDN? (5,5)
- VI. a) Describe the working principle of RAKE demodulator.
b) Elaborate the various multiple access techniques used to share the available bandwidth in Wireless Communication Systems. (5,5)

P.T.O.

(2)

VII. Write short notes on:-

- a) OFDM
- b) GSM
- c) Slow Fading

(10)

x-x-x